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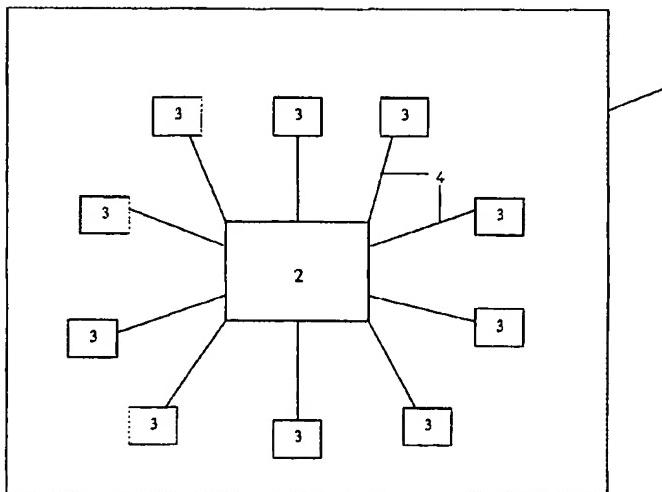
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(54) Title: SYSTEMS AND METHODS OF ESTABLISHMENT OF SECURE, TRUSTED DYNAMIC ENVIRONMENTS AND FACILITATION OF SECURED COMMUNICATION EXCHANGE NETWORKS



(57) Abstract: Systems and methods of establishment of secure, trusted dynamic environment and facilitation of secured communication exchange networks may include a community (1) having an intermediary (2) with a contractual link (4) to a plurality of members (3). An agreement between an applicant and an intermediary may be created which may obligate the applicant to a set of community rules. Members (3) of a community (1) may submit inquiry requests for communication with each other and can obtain certificates of compatibility for such communications.

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SYSTEMS AND METHODS OF ESTABLISHMENT OF SECURE, TRUSTED DYNAMIC ENVIRONMENTS AND FACILITATION OF SECURED COMMUNICATION EXCHANGE NETWORKS

5 I. FIELD OF THE INVENTION

The present invention relates generally to data management and, to a system and method for managing the exchange of data and related services between a plurality of entities subject to community-wide rules governing their interaction(s). More 10 specifically, the present invention relates to systems and methods of establishment of secure, trusted dynamic environments and facilitation of secured communication exchange networks.

II. BACKGROUND

15

Many emerging business imperatives, particularly those driven by privacy and security concerns, can require tightly controlled partner interaction frameworks that could be binding across an entire business community. Some of these imperatives will derive from the mandated provisions of federal and state laws such as the Gramm-Leach-Bliley Act and the Health Insurance Portability and Accountability Act ("HIPAA"), both hereby incorporated by reference. Compliance with the HIPAA transaction, privacy and security regulations presents especially difficult problems for which existing solutions 20 are very expensive.

25

For example, the HIPAA regulations may include provisions that mandate that each health care provider, health plan or healthcare clearinghouse (collectively "Covered Entities") must enter into legally-binding agreements with any business associate or trading partner that performs a function, activity or the like on their behalf and with whom they exchange Protected Health Information. In addition, Covered Entities may 30 be required to certify their privacy and security regulation compliance and perhaps even to require such certification from all Covered Entities with whom they exchange Protected Health Information.

A general problem may be represented as the requirement to establish any k of $n(n-1)/2$ potential links (e.g. perhaps 300 out of 2 trillion potential links) and where the k links may be dynamic. A "link" can correspond to a business relationship subject to legal terms and conditions and the nodes terminating a link may each have a set of unique policies (commitments, requirements, and constraints) that may be compatible in order for certain interactions between the node entities can be allowed. When n is large and each of the k links potentially may be established between random nodes, the time required in situations where legally-binding agreements should be executed between parties geographically separated before document exchange or other entity interaction can occur can have a detrimental impact on patient care or other business matters. Under these circumstances, representatives of each entity must negotiate and execute an appropriate and mutually acceptable agreement on an ongoing basis -- this process may require substantial time, additional personnel and may even require additional outside legal services. It is burdensome both financially and perhaps on limited, overworked personnel.

In effect, a vendor (healthcare provider) may enter into a separate agreement with each customer (patient) and upon the request of an originating node, the policies of each participating node for a potential link should be compared upon request of a participating end point to determine if they meet the requirements of each participating node.

U.S. Pat. No. 6,226,675 to Meltzer et al. describes participant services in a network of customers, suppliers, and other trading partners that exchange machine readable documents. Business transactions may be carried out in an electronic commerce system in a way in which paper based businesses operate.

U.S. Pat. Publication No. 2001/00472726 to Eisenhart describes technology exchange and collaboration on a network system such as the Internet. Specifically, this system facilitates collaboration between a technology Supplier and Buyer of a technology asset.

U.S. Pat. Publication No. 2002/0103661 to Albazz provides a system and method for representing business policies and procedures and governing the conduct of business activities using a business rule book.

5 In the past, it has not been disclosed to provide an establishment of a secure, trusted environment having a community rule set established and wherein each member of a community enters into an agreement at least substantially based upon the community set of rules which effectively contractually binds the member to each other member of the community. This agreement may be established prior to any interactions with other
10 members and a community may help facilitate proper interactions between the members.

III. Disclosure of the Invention

15 The present invention solves many or all of the foregoing problems by providing a system and method that may require only one agreement per member. It may provide a framework that may eliminate the need to enter into separate agreements between each set of interacting members. In effect, it may be as if each member has entered into a contractual agreement with every other member.

20 Accordingly, it is an object of the present invention to provide a secured environment that establishes a community having community rules to which each member is contractually bound.

25 It is another object of the invention to provide a secure, trusted environment that may allow members of a community to communicate between each other while being assured that each member is bound by a set of community rules.

30 It is yet another object of the invention to provide a secured environment that allows members of a community to exchange information, such as health care information, financial information, personal identification information and the like, between each other while being assured that each member is bound by a set of community rules.

It is another object of the invention to provide a secured environment where a member may specify additional requirements for interaction with other members.

It is yet another object of the invention to provide a secured environment that
5 allows members to submit a query for communication with another member and perhaps even receive a certification of compatibility between members.

It is yet still another embodiment of the invention to provide a secure, trusted environment for communication exchange between members wherein a community is
10 based upon compliance with HIPAA. It is therefore a goal of this object to provide a community which facilitates the exchange of protected health information between members.

IV. Brief Description of the Drawings

15

Figure 1 is a block diagram of a community having members and an intermediary linking the members according to an embodiment of the invention.

Figure 2 is a block diagram of various embodiments of the present invention
20 showing a management system, system functional modules, software framework and a hardware platform.

Figure 3 is a block diagram of a group of actions/elements that may be presented in various embodiments of the invention.

25

Figure 4 is a block diagram of a group of actions/element that may be presented in various embodiments of the invention.

Figure 5 is a block diagram of alternative actions/elements that may be presented
30 in an embodiment of the invention.

V. Mode(s) for Carrying Out the Invention

The present invention includes a variety of aspects, which may be combined in different ways. The following descriptions are provided to list elements and describe some of the embodiments of the present invention. These elements are listed with initial embodiments; however, it should be understood that they may be combined in any manner and in any number to create additional embodiments. The variously described examples and preferred embodiments should not be construed to limit the present invention to only the explicitly described systems, techniques, and applications. Further, this description should be understood to support and encompass descriptions and claims of all the various embodiments, systems, techniques, methods, devices, and applications with any number of the disclosed elements, with each element alone, and also with any and all various permutations and combinations of all elements in this or any subsequent application.

15

The present invention may include, in embodiments, a computer accessible and implemented method to establish secure, trusted dynamic environments. A computer accessible secure, trusted dynamic environment may establish and maintain a community legal framework that all community members agree to as being necessary to enable proper member interactions. In embodiments, an enrollment or even a registration process may serve to bind a new member to the community by contract.

It may be important, in some embodiments, to establish a legal authority of an intermediary and perhaps even an ability to enforce community rules for member interactions. As can be seen in Figure 1, a community (1) may provide an intermediary (2) having a contractual link (4) with a plurality of members (3). A legal entity, such as a trust clearinghouse may be formed. A trust clearinghouse may establish and embody a framework in which contractual relationships, whether implicit (reliance of policy statements or certifications) or even explicit, can be established or terminated under control of the interacting parties. As such, in embodiments, an agreement may be generated between an intermediary and an application having terms which may be explicit or even implicit. The invention may allow legitimate interaction between members perhaps without further legal concerns and may facilitate proper interactions

between community members that are consistent with the rules of the community and perhaps even any additional criteria defined by the interacting members. In embodiments the present application may provide granting an intermediary to enforce an agreement(s) and may even provide an enforcer of agreements between members.

5

Instead of requiring a separate agreement between each entity involved in an interaction, it may only be necessary to become a member of the community with confirmed membership in the community being sufficient to permit interactions relying on the rules of the community.

10

The invention may include, in certain embodiments, an automated means for establishing a community that may effectively subject the community to constraints that precondition or limit the nature and extent of legitimate interactions with other community members. In embodiments, a community may include an intermediary, such 15 as a trust clearinghouse, which may be a legal entity and perhaps even a physical computer technology entity. The present invention may provide an intermediary between an applicant and existing members of a community or perhaps even an intermediary between existing members. An intermediary legal entity, such as a trust clearinghouse entity, with a network embodiment as a computer system may coordinate, 20 manage and even administer a community. For example, a management entity of a community, such as an intermediary, may manage at least one community interface and a community. A community interface may be any kind of arrangement of a communication between an intermediary and another entity. A community interface may include a website or the like that may be accessible by a network, such as the 25 Internet, Ethernet and the like.

Members may include member nodal entities which may be the nodes providing a link that may each have a set of unique policies (commitments, requirements, constraints and the like) that should be compatible in order for certain interactions 30 between the members, such as node entities, to be allowed. A community of members that may be subject to community-wide rules and can interact directly between each other may be subject to legally binding agreements.

An intermediary, such as a intermediary nodal entity, or even a trust clearinghouse may serve a role of an intermediary that may be a vehicle which facilitates the binding of a nodal entity, members or even a new member applicant to the rules of the community, such as a charter, and, thereby, the acceptance of community constraints.

- 5 It may also support establishment and management of flexible interaction between members such as nodal entities, based on the compatibility of their individual policies. Upon a request of an originating node, policies of each participating node for a potential link can be compared upon request of a participating end point to determine if they meet the requirements of each participating node. It may automatically evaluate compatibility
- 10 and may even validate the status of interacting members.

A charter may establish a minimum common denominator terms and conditions that may be necessary and perhaps even sufficient to achieve an intended purpose. An example of an intended purpose may be HIPAA regulatory compliance. In
15 embodiments, the present invention may provide a community rule set based upon a minimum standard. Community rules may be determined from a minimum standard which may include any set of rules that may be desirable including but certainly not limited to regulated acts, state laws, federal laws, foreign laws, health care regulations, financial information regulations, personal identification regulations and the like. In
20 some embodiments, it may be desirable to determine community rules based upon at least one health care regulation. For example, a minimum standard may include the Health Insurance Portability and Accountability Act and a community rule set acts to comply with the Health Insurance Portability and Accountability Act. In other embodiments, it may be desirable to determine community rules based upon at least one
25 financial information regulation. For example, a minimum standard may include the Gramm-Leach-Bliley Act and a community rule set may act to comply with the Gramm-Leach-Bliley Act. Each of the specific acts stated herein are meant to provide examples of some of the embodiments of the present invention. The invention is not meant to be limited to such example and as intended to include any set of standards that may act to
30 provide a basis for a community rule set. Some examples of community rules may include, but are certainly not limited to, confidentiality, encryption/decryption procedures, identification verification, minimum communication requirements, access to

information, communication documentation, information transfer procedures and the like.

The present invention may support sub-community rules in cases where 5 circumstances of a member may require interaction constraints either more or less restrictive than the basic community rules, a member may elect to conform to sub-community rules that preempt the basic community rules. A minimum standard, as previously discussed, may include the minimum basis for establishment of a community rule set. Other rules, standards, requirements, or the like may be added to the minimum 10 standards of a community, or in embodiments, to an individual member agreement.

A charter may be a document that defines the purpose of the community together with the rights, responsibilities and constraints of the members. A charter may be based upon standards as discussed above. A community may be a group of nodal entities 15 defined by and bound by the provisions of the community charter. Constraints may include limitations or conditions on entity behavior acceded to by a member through representations, commitments, warranties with respect to the intermediary entity and other members. An intermediary entity may be an entity that facilitates the establishment, maintenance and functioning of the community. It may use an 20 intermediary legal entity with a network embodiment as a computer system. A member may be a nodal entity that is currently enrolled in the community. A member, such as a nodal entity, may be an autonomous nodal entity which may be a person, individual, organization, computer system, machine, company, corporation, entity or other entities capable of interaction with other members. In some embodiments, an applicant or a 25 member may be a consultant, lab, clinic, information technology service, hospital, billing service, collection service, specialist, accountant, health maintenance organization, pharmacy, lawyer, transcriptionist, insurer, group health plan, Medicare, physician or the like.

30 An intermediary may possess legal rights and responsibilities according to the terms of a charter. Interaction between members may include, but is not limited to, data and document exchange, transactions and the provision of services.

A system platform may include a representative hardware and software platform that may facilitate the implementation of the invention as represented in the block diagram of Figure 2. A platform could be configured in capacity and reliability as required to support a community. A system should also be appropriately protected from
5 non-authorized use, such as Internet attacks, and should apply the best available practices for a robust and reliable host for the invention. This may include implementing protection of a community interface against non-authorized use.

In embodiments, the present invention may provide a community which includes
10 hardware and software. Software may be developed to encompass the various embodiments of the present invention. Various subroutines may be implemented to provide the various elements and steps as described herein. System functional modules may include, but is not limited to, profile management (20), certificate generator (21), certificate validation (22), agreement generator (23), certificate revocation (24),
15 compatibility engine (25), message handler (26) and the like. A database (27) or even a plurality of databases may be provided in embodiments of the present invention. A software framework may include, but is not limited to, OS (28), HTTP server (29), secure file storage (30), J2EE (31), smart token support (32), encryption/decryption (33), SOAP (34), XML (35), PKI (36) and the like. A network interface (37) may also be
20 provided. A hardware platform may include, but is not limited to I/O (38), mass storage (39), ROM (40), CPU (41), RAM (42) and the like.

A system may be accessed in a variety of ways. In embodiments, the present invention may include providing at least one electronically accessible community
25 interface. Initial access to the system could be through a pedestrian web site, such as a pedestrian page which may be accessible by anyone, and may even be accessible through the Internet. A pedestrian page may provide information regarding a scope of the community or communities, rules of each community including requirements for membership, a means for enrolling and the like.

30

An enrollment process may begin with a collection of prospective member profile data that may be necessary to facilitate membership agreement generation and relationship management. Enrollment forms, such as a new member application, may be

presented on a general interface of a community interface such as through the applicant's web browser or other suitable interface. At least one applicant may select a new member application where a system may then prompt an applicant to enter applicant identification information. After a new member application may be completed a system
5 may accept the completed new membership application with the applicant identification information.

In embodiments, applicant identification information may include name, address, desired commitments, requirements of other member parameters and other information.

10 Collected data from the applicant may include descriptions of a role an applicant proposes to play within a community, commitments the applicant may be willing to make to a community, any requirements an applicant has related to interactions with other members and the like.

15 A system may then process a new membership application having applicant identification information with a new membership application processor. Processing of a new membership application may include the use of software and may even include storing applicant identification information to a database.

20 Information, together with a community rule set, such as a charter, can be used by an agreement generator to generate a membership agreement that may define representations and obligations of the parties. An agreement generator may create and populate a database file that may hold member's interaction requirements, commitments, agreements, and other criteria in a form usable by a compatibility engine.
25

An agreement may be substantially based upon at least the community rules. An agreement may be prepared to establish a commitment for another member's benefit and may even be effectively legally-binding on the applicant, an intermediary entity and other community members. A system may prompt an applicant to execute a generated
30 membership agreement which may then be executed, either by conventional or digital signature, perhaps by both the applicant and the intermediary entity. In embodiments, the present invention may provide an agreement execution certifier which certifies execution of an agreement to ensure that proper contractual obligations are created. In a

conventional aspect, an original signature document may be signed, perhaps in front of a witness or even a notary, and sent to an intermediary for verification. In a digital aspect, a digital signature program or a digital signature element may be used.

5 A system may contractually obligate an applicant and even each existing member of a community to a set of community rules for the benefit of the members. In embodiments, a contractual link between an applicant and a community rule set may be established which may provide a commitment for another community member's benefit. This may effectively obligate an applicant, each existing member and perhaps even
10 future members of a community to the community rules.

Upon successful enrollment, a system may permit an applicant access to a membership area of a community. A membership area may be accessed through a member accessible interface for use by existing members. In embodiments, access to a
15 membership area may provide for facilitation of private information exchange. An applicant could be issued a member digital certificate for authorized access to membership areas. For example, a member digital certificate may be presented and validated to gain access to a members only web site for the community.

20 In embodiments, an applicant may be prompted by a system to enter applicant specific community rule criteria. This may be presented in a new member application, at any time perhaps even during the duration of the affiliation of a member with a community. Applicant specific community rule criteria may include any additional requirement that an applicant may have for communication with another member. This
25 may be in addition to a community rule set in certain embodiments. Accordingly, in embodiments, an agreement generated by an agreement generator may be based upon community rules and applicant specific community rule criteria. An agreement, whether based upon applicant specific community rule criteria or not, may limit member interactions. In embodiments, interactions between member may be limited so that they
30 may be in compliance with the community rules and perhaps even with applicant specific community rule criteria.

Any member representative with suitable authorization may conduct routine maintenance of a profile through any available member interface. Community rules, such as a charter, may provide that certain profile elements that affect the member's legal obligations may be changed by declaration and notification. In the event the member
5 wishes to change commitments, requirements, or other profile elements that affect its interactions with community members or the intermediary entity, the changes should be properly approved and acknowledged by a member representative having authorization to legally commit the member. Accordingly, in various embodiments, the present invention may provide an interface for members to submit changes to legal obligations,
10 processing submitted changes to the member obligations, a membership information update interface, a membership obligations change approval element and perhaps even a membership obligations change denial element.

One of the important features that may be included in the present invention may
15 be a communication facilitator between the members which may help facilitate proper communication between the members. An intermediary may be used for facilitating these communications. By facilitating it is meant to be understood that a system and perhaps an intermediary may provide a framework for each member's use so that members can communicate with each other being assured that the communications
20 comply with the community rules and possibly even comply with any individual member specific community rule criteria.

In embodiments, the present invention may provide a secure communication exchange facilitator for facilitating a securely exchanged communication between a
25 querying member and a target member. For example, a secure private information exchange facilitator may facilitate private information to be communicated between a querying member and a target member. A communication should be protected from unauthorized use and a system may provide an information encryption element and an information decryption element which may encrypt and decrypt a communication such
30 as private information.

In embodiments, it may be desirable to verify identification and even authorization of another member prior to communication between members. When one

member wishes to check the membership status of another member, a member, a querying member may access an inquiry interface, such as a communication inquiry interface or even a private information exchange inquiry interface, perhaps through a membership area of a community. A member may query a system to assess a target
5 member's membership status, commitment/requirement compatibility between themselves and the target, and perhaps even review a target member's commitments and requirements. For example, an inquiry can be submitted by a communication source such as a Web browser, interface, paper submission, SOAP messages or other suitable interface and may be capable of manually collecting and submitting query data. An
10 automated means such as SOAP messages generated by a server may be employed to submit queries and receive responses. In either case, a message, which may be encrypted, may be sent to a communication inquiry processor when it may be received, decrypted and otherwise processed by a message handler and then forwarded to a member compatibility processor such as a compatibility engine.

15

After an inquiry request has been submitted, a system may accept an inquiry from a query member and may even process an inquiry. This may include storing an inquiry to a database and may even provide a system that may check compatibility of a querying member with a target member in a compatibility engine. A compatibility engine may
20 compare and evaluate the level of compatibility between a querying member and a target member. Depending on the rules of the community and perhaps even additional criteria defined by the members, an algorithm may be employed and may range from simple and deterministic comparison of member commitments and requirements to a complex, even fuzzy correlation of member characteristics. In embodiments, a compatibility check may
25 include checking compatibility between a querying membership agreement and a target membership agreement. At the time a member may submit an inquiry, a system may allow a querying member to specify additional criteria for a compatibility check. This may include, in embodiments, an additional criteria specification element which may result in checking compatibility between a querying member agreement, additional
30 criteria, and a target member agreement. A member compatibility processor such as a compatibility engine may utilize an algorithm such as defined in a software or even a subroutine of software to perform the compatibility check.

- A compatibility engine may generate a report based upon a compatibility check. A report from a compatibility engine may be sent or even forwarded to a certificate generator which may format and encapsulate the report, digitally sign it with perhaps a digital signature element, and may even send the resulting certificate to a querying member such as by issuing a certificate of compatibility. A certification generator may be responsive to a compatibility engine and report. A querying member can then assess which interactions with a target member may be permitted. For example, a certificate of compatibility may allow for private information exchange.
- 10 A certificate generator may be responsible for generating digital credentials and authoritative representations that may be required to establish and maintain the community. Certificate validation and revocation may support the maintenance of system and community integrity.
- 15 Different types of communication may be facilitated between members. A communication may be any kind of knowledge, information and the like. A communication may be communicated in compliance with the community rules. For example, but not limited to, a communication may include health information exchange, financial information exchange, personal identification information exchange, document exchange, a business transaction, provision of services and the like.
- 20

In embodiments, the present invention may provide a communication inquiry denial element responsive to a compatibility engine which may deny an inquiry from a querying member for communication with a target member based upon a compatibility check of a querying member and a target member. In other embodiments, the present invention may provide a communication inquiry grant element responsive to a compatibility engine which may grant an inquiry from a querying member for communication with a target member based upon a compatibility check of the querying member and the target member.

30

In yet other embodiments of the present invention a certificate of compliance may be issued. A certificate of compliance may be a document that can certify that a member or members are complying with the community rules.

A system database may provide a persistent storage of system information including member profile data, certificates, current certificate and certificate revocation lists, archived agreements. Further, in embodiments, a database may store additional
5 information from a community including but not limited to member interactions, member requirements, member commitments, member updates, certificates, archived agreements, member agreements, current certificates, a certificate revocation list and the like.

10 The present invention may provide, in embodiments, a certificate validation element which can be used to validate a certificate of compatibility or even a certificate of compliance. A certificate revocation element may be provided which can be used to revoke a certificate of compatibility or even a certificate of compliance.

15 Figures 3, 4 and 5 include some of the various embodiments of the present invention as herein disclosed and discussed. A system may include determining community rules (10), providing a general interface (18) which may have a new membership application (11), prompting an applicant to enter applicant identification information (12), accepting a completed application (13), processing an application with
20 a new member processor (14), generating an agreement with an agreement generator (15), prompting an applicant to execute an agreement (16), certifying execution of an agreement with an agreement execution certifier (17), storing an agreement to a database (68) and permitting access to a membership area of a community (19). A system may include a membership area (49) which may provide an inquiry interface (50) such as a
25 communication inquiry interface, accepting an inquiry (51), processing an inquiry with a inquiry processor (52), checking compatibility with a member compatibility processor (53), providing a communication inquiry grant and/or denial element (54), generating a report based on a compatibility check (55), sending a report to a certificate generator (56), issuing a certificate of compatibility (57), facilitating communications between
30 members such as with a communication facilitator (58), providing a encryption and/or decryption element for any communications and perhaps even any inquiry requests (59) and providing a validation and/or revocation element to validate or perhaps even revoke certificates (60). A membership information update interface (65) may be provided

within a system which may include a member change approval and/or denial element (66). These drawings are meant to help with understanding of the present invention and are not meant to be limited to the number of steps, elements that may be presented in specific embodiments of the invention.

5

As can be easily understood from the foregoing, the basic concepts of the present invention may be embodied in a variety of ways. It involves both techniques for securing and community management techniques as well as devices to accomplish the appropriate secured community. In this application, the securing and community management techniques are disclosed as part of the results shown to be achieved by the various devices described and as steps which are inherent to utilization. They are simply the natural result of utilizing the devices as intended and described. In addition, while some devices are disclosed, it should be understood that these not only accomplish certain methods but also can be varied in a number of ways. Importantly, as to all of the foregoing, all of these facets should be understood to be encompassed by this disclosure.

The discussion included in this application is intended to serve as a basic description. The reader should be aware that the specific discussion may not explicitly describe all embodiments possible; many alternatives are implicit. It also may not fully explain the generic nature of the invention and may not explicitly show how each feature or element can actually be representative of a broader function or of a great variety of alternative or equivalent elements. Again, these are implicitly included in this disclosure. Where the invention is described in device-oriented terminology, each element of the device implicitly performs a function. Apparatus claims may not only be included for the device described, but also method or process claims may be included to address the functions the invention and each element performs. Neither the description nor the terminology is intended to limit the scope of the claims that will be included in any subsequent patent application.

It should also be understood that a variety of changes may be made without departing from the essence of the invention. Such changes are also implicitly included in the description. They still fall within the scope of this invention. A broad disclosure encompassing both the explicit embodiment(s) shown, the great variety of implicit

alternative embodiments, and the broad methods or processes and the like are encompassed by this disclosure and may be relied upon in any subsequent patent application. It should be understood that such language changes and broader or more detailed claiming may be accomplished at a later date. With this understanding, the
5 reader should be aware that this disclosure is to be understood to support any subsequently filed patent application that may seek examination of as broad a base of claims as deemed within the applicant's right and may be designed to yield a patent covering numerous aspects of the invention both independently and as an overall system.

10 Further, each of the various elements of the invention and claims may also be achieved in a variety of manners. Additionally, when used or implied, an element is to be understood as encompassing individual as well as plural structures that may or may not be physically connected. This disclosure should be understood to encompass each such variation, be it a variation of an embodiment of any apparatus embodiment, a
15 method or process embodiment, or even merely a variation of any element of these. Particularly, it should be understood that as the disclosure relates to elements of the invention, the words for each element may be expressed by equivalent apparatus terms or method terms -- even if only the function or result is the same. Such equivalent, broader, or even more generic terms should be considered to be encompassed in the description of
20 each element or action. Such terms can be substituted where desired to make explicit the implicitly broad coverage to which this invention is entitled. As but one example, it should be understood that all actions may be expressed as a means for taking that action or as an element which causes that action. Similarly, each physical element disclosed should be understood to encompass a disclosure of the action which that physical
25 element facilitates. Regarding this last aspect, as but one example, the disclosure of a "certification" should be understood to encompass disclosure of the act of "certifying" -- whether explicitly discussed or not -- and, conversely, were there effectively disclosure of the act of "certifying", such a disclosure should be understood to encompass disclosure of a "certification" and even a "means for certifying". Such changes and
30 alternative terms are to be understood to be explicitly included in the description.

Any acts of law, statutes, regulations, or rules mentioned in this application for patent; or patents, publications, or other references mentioned in this application for

patent are hereby incorporated by reference. The priority case, United States Provisional Patent Application No. 60/481,551, filed October 24, 2003, is hereby incorporated by reference including any figures or attachments. In addition, as to each term used it should be understood that unless its utilization in this application is inconsistent with such interpretation, common dictionary definitions should be understood as incorporated for each term and all definitions, alternative terms, and synonyms such as contained in the Random House Webster's Unabridged Dictionary, second edition are hereby incorporated by reference. Finally, all references listed in the below chart or any other information statement filed with the application are hereby appended and hereby incorporated by reference, however, as to each of the above, to the extent that such information or statements incorporated by reference might be considered inconsistent with the patenting of this/these invention(s) such statements are expressly not to be considered as made by the applicant(s).

15 U.S. PATENT AND PATENT PUBLICATION DOCUMENTS

DOCUMENT NO	DATE	NAME	CLASS	SUBCLASS	FILING DATE
5,958,050	09/28/1999	Griffin	713	200	12/26/1996
5,987,423	11/16/1999	Arnold	705	14	03/28/1997
5,692,206	11/25/1997	Shirley	395	793	11/30/1994
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6,226,675	05/01/2001	Meltzer	709	223	10/16/1998
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2002/0087859	07/04/2002	Weeks	713	156	05/21/2001
2002/0103661	08/01/2002	Albazz	705	1	10/30/2001
2003/0154137	08/14/2003	Carroll	705	26	02/13/2002

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

US Provisional Application Number 60/481,551, filed October 24, 2003

Thus, the applicant(s) should be understood to have support to claim and make a statement of invention to at least: i) each of the establishment of secured environment devices as herein disclosed and described, ii) the related methods disclosed and 5 described, iii) similar, equivalent, and even implicit variations of each of these devices and methods, iv) those alternative designs which accomplish each of the functions shown as are disclosed and described, v) those alternative designs and methods which accomplish each of the functions shown as are implicit to accomplish that which is disclosed and described, vi) each feature, component, and step shown as separate and 10 independent inventions, vii) the applications enhanced by the various systems or components disclosed, viii) the resulting products produced by such systems or components, ix) each system, method, and element shown or described as now applied to any specific field or devices mentioned, x) methods and apparatuses substantially as described hereinbefore and with reference to any of the accompanying examples, xi) the 15 various combinations and permutations of each of the elements disclosed, and xii) each potentially dependent claim or concept as a dependency on each and every one of the independent claims or concepts presented.

In addition and as to computer aspects and each aspect amenable to programming 20 or other electronic automation, the applicant(s) should be understood to have support to claim and make a statement of invention to at least: xii) processes performed with the aid of or on a computer as described throughout the above discussion, xiv) a programmable apparatus as described throughout the above discussion, xv) a computer readable memory encoded with data to direct a computer comprising means or elements which 25 function as described throughout the above discussion, xvi) a computer configured as herein disclosed and described, xvii) individual or combined subroutines and programs as herein disclosed and described, xviii) the related methods disclosed and described, xix) similar, equivalent, and even implicit variations of each of these systems and methods, xx) those alternative designs which accomplish each of the functions shown as 30 are disclosed and described, xxi) those alternative designs and methods which accomplish each of the functions shown as are implicit to accomplish that which is disclosed and described, xxii) each feature, component, and step shown as separate and

independent inventions, and xxiii) the various combinations and permutations of each of the above.

With regard to claims whether now or later presented for examination, it should
5 be understood that for practical reasons and so as to avoid great expansion of the examination burden, the applicant may at any time present only initial claims or perhaps only initial claims with only initial dependencies. Support should be understood to exist to the degree required under new matter laws -- including but not limited to European Patent Convention Article 123(2) and United States Patent Law 35 U.S.C. § 132 or other
10 such laws-- to permit the addition of any of the various dependencies or other elements presented under one independent claim or concept as dependencies or elements under any other independent claim or concept. In drafting any claims at any time whether in this application or in any subsequent application, it should also be understood that the applicant has intended to capture as full and broad a scope of coverage as legally
15 available. To the extent that insubstantial substitutes are made, to the extent that the applicant did not in fact draft any claim so as to literally encompass any particular embodiment, and to the extent otherwise applicable, the applicant should not be understood to have in any way intended to or actually relinquished such coverage as the applicant simply may not have been able to anticipate all eventualities; one skilled in the
20 art, should not be reasonably expected to have drafted a claim that would have literally encompassed such alternative embodiments.

Further, if or when used, the use of the transitional phrase "comprising" is used to maintain the "open-end" claims herein, according to traditional claim interpretation.
25 Thus, unless the context requires otherwise, it should be understood that the term "comprise" or variations such as "comprises" or "comprising", are intended to imply the inclusion of a stated element or step or group of elements or steps but not the exclusion of any other element or step or group of elements or steps. Such terms should be interpreted in their most expansive form so as to afford the applicant the broadest
30 coverage legally permissible.

Finally, any claims set forth at any time are hereby incorporated by reference as part of this description of the invention, and the applicant expressly reserves the right to

use all of or a portion of such incorporated content of such claims as additional description to support any of or all of the claims or any element or component thereof, and the applicant further expressly reserves the right to move any portion of or all of the incorporated content of such claims or any element or component thereof from the

5 description into the claims or vice-versa as necessary to define the matter for which protection is sought by this application or by any subsequent continuation, division, or continuation-in-part application thereof, or to obtain any benefit of, reduction in fees pursuant to, or to comply with the patent laws, rules, or regulations of any country or treaty, and such content incorporated by reference shall survive during the entire

10 pendency of this application including any subsequent continuation, division, or continuation-in-part application thereof or any reissue or extension thereon.

VI. CLAIMS

What is claimed is:

- 5 1. A computer accessible and implemented method to establish secure, trusted dynamic environments, said method comprising the steps of:
providing at least one electronically accessible community interface;
determining community rules based upon a minimum standard for at least one community;
- 10 providing a new membership application for at least one applicant on said at least one community interface;
prompting said at least one applicant to enter applicant identification information;
accepting a completed new membership application having said applicant identification information from said at least one applicant;
- 15 processing said new membership application from said at least one applicant;
generating an agreement substantially based upon at least said community rules,
said agreement establishing a commitment for another member's benefit;
prompting said at least one applicant to execute said agreement substantially based upon at least said community rules;
- 20 contractually obligating said at least one applicant and each existing member of said at least one community to said community rules for the benefit of said members;
permitting said members access to a membership area to facilitate private information exchange between members;
- 25 providing an inquiry interface in said membership area of said at least one community;
accepting an inquiry from a querying member of said at least one community for private information exchange with a target member of said at least one community;
- 30 processing said inquiry from said querying member;
checking compatibility of said querying member with said target member in a compatibility engine;
generating a report from said compatibility engine;

sending said report from said compatibility engine to a certificate generator; and issuing a certificate of compatibility for said target member and said querying member for said private information exchange.

2. A computer accessible and implemented method to establish secure, trusted
5 dynamic environments, said method comprising the steps of:

providing at least one electronically accessible community interface;
determining community rules based upon a minimum standard for at least one community;
providing a new membership application for at least one applicant on said at least
10 one community interface;
prompting said at least one applicant to enter applicant identification information;
accepting a completed new membership application having said applicant identification information from said at least one applicant;
processing said new membership application from said at least one applicant;
15 generating an agreement substantially based upon at least said community rules,
said agreement establishing a commitment for another member's benefit;
prompting said at least one applicant to execute said agreement substantially
based upon at least said community rules;
contractually obligating said at least one applicant and each existing member of
20 said at least one community to said community rules for the benefit of said members; and
permitting said applicant access to a membership area of said at least one community.

3. A computer implemented method to establish secure, trusted dynamic
25 environments as described in claim 1 or 2 wherein said step of prompting said at
least one applicant to enter applicant identification information comprises
applicant identification information selected from a group consisting of name,
address, desired commitments and requirements of other member parameters.

4. A computer implemented method to establish secure, trusted dynamic
30 environments as described in claim 3 wherein said step of processing said new
membership application comprises the step of storing said applicant identification
information in a database.

5. A computer implemented method to establish secure, trusted dynamic environments as described in claim 4 and further comprising the step of storing said agreement to said database.
6. A computer implemented method to establish secure, trusted dynamic environments as described in claim 2 wherein said step of processing said new membership application comprises the step of processing said new membership application using software.
10. A computer implemented method to establish secure, trusted dynamic environments as described in claim 4 wherein said step of storing said applicant identification information in a database comprises the step of storing additional information from said at least one community, said additional information selected from a group consisting of member interactions, member requirements, member commitments, member updates, certificates, archived agreements, member agreements, current certificates and a certificate revocation list.
15. 8. A computer implemented method to establish secure, trusted dynamic environments as described in claim 1 or 2 wherein said step of prompting said at least one applicant to enter applicant identification information comprises the step of prompting said at least one applicant to enter applicant specific community rule criteria.
20. 9. A computer implemented method to establish secure, trusted dynamic environments as described in claim 8 wherein said step of generating an agreement substantially based upon at least said community rules comprises the step of generating an agreement substantially based upon at least said community rules and said applicant specific community rule criteria.
25. 10. A computer implemented method to establish secure, trusted dynamic environments as described in claim 9 wherein said step of generating an agreement substantially based upon at least said community rules and said applicant specific community rule criteria comprises the step of limiting member interactions with said applicant to interactions in compliance with said community rules and said applicant specific community rule criteria.
30. 11. A computer implemented method to establish secure, trusted dynamic environments as described in claim 2 and further comprising the steps of:

- providing an inquiry interface in said membership area of said at least one community;
- accepting an inquiry from a querying member of said at least one community for communication with a target member of said at least one community;
- 5 processing said inquiry from said querying member; and
- checking compatibility of said querying member with said target member in a compatibility engine.
12. A computer implemented method to establish secure, trusted dynamic environments as described in claim 10 and further comprising the steps of:
- 10 providing an inquiry interface in said membership area of said at least one community;
- accepting an inquiry from a querying member of said at least one community for communication with a target member of said at least one community;
- processing said inquiry from said querying member; and
- 15 checking compatibility of said querying member with said target member in a compatibility engine.
13. A computer implemented method to establish secure, trusted dynamic environments as described in claim 11 wherein said step of accepting an inquiry from a querying member of said at least one community for communication with
- 20 a target member of said at least one community comprises the step of accepting an inquiry from a querying member of said at least one community for private information exchange with a target member of said at least one community.
14. A computer implemented method to establish secure, trusted dynamic environments as described in claim 1 or 11 wherein said communication is selected from a group consisting of health information exchange, financial information exchange, personal identification information exchange and document exchange.
- 25
15. A computer implemented method to establish secure, trusted dynamic environments as described in claim 1 or 11 wherein said communication is selected from a group consisting of a business transaction and provision of services.
- 30
16. A computer implemented method to establish secure, trusted dynamic environments as described in claim 11 and further comprising the step of denying

- said inquiry from said querying member for communication with a target member based upon said step of checking compatibility of said querying member and said target member.
17. A computer implemented method to establish secure, trusted dynamic environments as described in claim 11 and further comprising the step of granting said inquiry from said querying member for communication with a target member based upon said step of checking compatibility of said querying member and said target member.
- 5 18. A computer implemented method to establish secure, trusted dynamic environments as described in claim 11 and further comprising the steps of: generating a report from said compatibility engine; sending said report from said compatibility engine to a certificate generator; and issuing a certificate of compatibility for said target member and said querying member.
- 10 19. A computer implemented method to establish secure, trusted dynamic environments as described in claim 1 or 18 wherein said issuing said certificate of compatibility comprises the step of issuing a certificate of compliance to said community rules for said target member and said querying member.
- 15 20. A computer implemented method to establish secure, trusted dynamic environments as described in claim 1 or 18 wherein said step of issuing said certificate of compatibility comprises the steps of: digitally signing said report to create a certificate by said certificate generator; and sending said signed report to said querying member.
- 20 21. A computer implemented method to establish secure, trusted dynamic environments as described in claim 18 and further comprising the step of validating said certificate of compatibility.
- 25 22. A computer implemented method to establish secure, trusted dynamic environments as described in claim 18 and further comprising the step of revoking said certificate of compatibility.
- 30 23. A computer implemented method to establish secure, trusted dynamic environments as described in claim 19 and further comprising the step of validating said certificate of compliance.

24. A computer implemented method to establish secure, trusted dynamic environments as described in claim 19 and further comprising the step of revoking said certificate of compliance.
- 5 25. A computer implemented method to establish secure, trusted dynamic environments as described in claim 11 or 18 and further comprising the step of facilitating a securely exchanged communication between said querying member and said target member.
- 10 26. A computer implemented method to establish secure, trusted dynamic environments as described in claim 13 or 18 and further comprising the step of facilitating a securely exchanged communication of private information between said querying member and said target member.
- 15 27. A computer implemented method to establish secure, trusted dynamic environments as described in claim 25 wherein said step of facilitating a securely exchanged communication between said querying member and said target member comprises the step of protecting said communication from unauthorized use.
- 20 28. A computer implemented method to establish secure, trusted dynamic environments as described in claim 26 wherein said step of securely exchanged communication of private information between said querying member and said target member comprises the step of protecting said private information from unauthorized use.
- 25 29. A computer implemented method to establish secure, trusted dynamic environments as described in claim 27 wherein said step of facilitating a securely exchanged communication between said querying member and said target member comprises the step of encrypting said communication.
- 30 30. A computer implemented method to establish secure, trusted dynamic environments as described in claim 28 wherein said step of securely exchanged communication of private information between said querying member and said target member comprises the step of encrypting said private information.
- 30 31. A computer implemented method to establish secure, trusted dynamic environments as described in claim 11 wherein said step of checking compatibility of said querying member with said target member in a

- compatibility engine comprises the step of checking compatibility between a querying membership agreement and a target membership agreement.
32. A computer implemented method to establish secure, trusted dynamic environments as described in claim 11 and further comprising the step of allowing said querying member to specify additional criteria for said compatibility check.
- 5 33. A computer implemented method to establish secure, trusted dynamic environments as described in claim 11 or 32 wherein said step of checking compatibility of said querying member with said target member in a compatibility engine comprises the step of checking compatibility between a querying member agreement, additional criteria, and a target member agreement.
- 10 34. A computer implemented method to establish secure, trusted dynamic environments as described in claim 11 or 31 wherein said step of checking compatibility of said querying member with said target member in a compatibility engine comprises the step of utilizing an algorithm to perform said compatibility check.
- 15 35. A computer implemented method to establish secure, trusted dynamic environments as described in claim 11 wherein said step of processing said inquiry from said querying member comprises the step of storing information to a database.
- 20 36. A computer implemented method to establish secure, trusted dynamic environments as described in claim 11 wherein said inquiry by said querying member may be submitted by a communication source selected from a group consisting of a web browser, interface, paper submission and SOAP messages.
- 25 37. A computer implemented method to establish secure, trusted dynamic environments as described in claim 2 or 11 wherein said at least one community interface comprises a website.
38. A computer implemented method to establish secure, trusted dynamic environments as described in claim 1 or 2 and further comprising the step of certifying execution of said agreement.
- 30 39. A computer implemented method to establish secure, trusted dynamic environments as described in claim 1 or 2 and further comprising the step of providing an intermediary between said applicant and said existing members.

40. A computer implemented method to establish secure, trusted dynamic environments as described in claim 2 and further comprising the step of providing an intermediary between said existing members.
41. A computer implemented method to establish secure, trusted dynamic environments as described in claim 39 and further comprising the step of managing said at least one community interface and said at least one community by said intermediary.
42. A computer implemented method to establish secure, trusted dynamic environments as described in claim 2 wherein said step of providing at least one electronically accessible community interface comprises the step of providing at least one community interface electronically accessible through an Internet.
43. A computer implemented method to establish secure, trusted dynamic environments as described in claim 39 and further comprising the step of granting said intermediary to enforce said agreement.
44. A computer implemented method to establish secure, trusted dynamic environments as described in claim 39 and further comprising the step of facilitating proper communication between said members with said intermediary.
45. A computer implemented method to establish secure, trusted dynamic environments as described in claim 1 or 2 wherein said minimum standard comprises standards selected from a group consisting of regulated acts, state laws, federal laws, foreign laws, health care regulations, financial information regulations and personal identification regulations.
46. A computer implemented method to establish secure, trusted dynamic environments as described in claim 1 or 2 wherein said minimum standard comprises Health Insurance Portability and Accountability Act.
47. A computer implemented method to establish secure, trusted dynamic environments as described in claim 1 or 2 wherein said minimum standard comprises Gramm-Leach-Bliley Act.
48. A computer implemented method to establish secure, trusted dynamic environments as described in claim 46 and further comprising the step of complying said community rules with said Health Insurance Portability and Accountability Act.

49. A computer implemented method to establish secure, trusted dynamic environments as described in claim 47 and further comprising the step of complying said community rules with said Gramm-Leach-Bliley Act.
50. A computer implemented method to establish secure, trusted dynamic environments as described in claim 2 or 11 wherein said members are selected from a group consisting of individuals, organization, computer system, machine, companies, corporation and entities.
51. A computer implemented method to establish secure, trusted dynamic environments as described in claim 40 wherein said step of certifying execution of said agreement comprises the step of certifying execution of said agreement by said applicant and a representative of said intermediary.
- 10 52. A computer implemented method to establish secure, trusted dynamic environments as described in claim 2 or 11 wherein said step of contractually obligating said at least one applicant and each existing member of said at least one community to at least said community rules comprises the step of contractually obligating said at least one applicant, each existing member and future members of said community to at least said community rules.
- 15 53. A computer implemented method to establish secure, trusted dynamic environments as described in claim 2 or 11 wherein said agreement comprises terms selected from a group consisting of implicit and explicit terms.
- 20 54. A computer implemented method to establish secure, trusted dynamic environments as described in claim 1, 2 or 11 and further comprising the step of implementing protection of said at least one community interface against non-authorized use.
- 25 55. A computer implemented method to establish secure, trusted dynamic environments as described in claim 54 wherein said non-authorized use comprises Internet attacks.
56. A computer implemented method to establish secure, trusted dynamic environments as described in claim 2 wherein said at least one community comprises at least hardware and software.
- 30 57. A computer implemented method to establish secure, trusted dynamic environments as described in claim 2 wherein said at least one community interface comprises a pedestrian page.

58. A computer implemented method to establish secure, trusted dynamic environments as described in claim 57 wherein said pedestrian page comprises information selected from a group consisting of scope of communities, rules of each community and requirements for membership.
- 5 59. A computer implemented method to establish secure, trusted dynamic environments as described in claim 11 wherein said step of permitting said applicant access to a membership area of said at least one community comprises the step of providing said member with a member digital certificate for authorized access to said membership areas.
- 10 60. A computer implemented method to establish secure, trusted dynamic environments as described in claim 1, 2 or 11 and further comprising the steps of: providing an interface for members to submit changes to legal obligations; and processing submitted changes to said member obligations.
- 15 61. A computer implemented method to establish secure, trusted dynamic environments as described in claim 1, 2, 14, 46 wherein said at least one applicant is selected from a group consisting of consultant, lab, clinic, information technology service, hospital, billing service, collection service, specialist, accountant, health maintenance organization, pharmacy, lawyer, transcriptionist, insurer, group health plan, Medicare and physician.
- 20 62. A computer implemented method to establish secure, trusted dynamic environments as described in claim 1, 2 or 14 wherein said community rules are selected from a group consisting of confidentiality, encryption/decryption procedures, identification verification, minimum communication requirements, access to information, communication documentation and information transfer procedures.
- 25 63. A computer accessed and implemented method to establish secure, trusted dynamic environments, said method comprising the steps of:
providing a member accessible interface for existing members to access a membership area of said at least one community;
providing an inquiry interface in said membership area of said at least one community;
accepting an inquiry from a querying member of said at least one community for communication with a target member of said at least one community;

- processing said inquiry from said querying member;
5 checking compatibility of an agreement with said querying member and an
agreement with said target member; and
issuing a certificate of compatibility for said target member and said querying
member.
64. A computer implemented method to establish secure, trusted dynamic environments as described in claim 63 further comprising the steps of:
determining community rules based upon a minimum standard for each of said at least one community;
- 10 providing a new membership application for at least one applicant on said at least on community interface;
prompting said at least one applicant to enter applicant identification information;
accepting a completed new membership application having said applicant identification information from said at least one applicant;
- 15 processing said new membership application from said at least one applicant;
generating an agreement substantially based upon at least said community rules,
said agreement establishing a commitment for another member's benefit;
prompting said at least one applicant to execute said agreement substantially based upon at least said community rules;
- 20 contractually obligating said at least one applicant and each existing member of said at least one community to said community rules for the benefit of said community members; and
permitting said applicant access to a membership area of said at least one community for communication exchange of protected health information.
- 25 65. A computer implemented method to establish secure, trusted dynamic environments as described in claim 64 wherein said step of prompting said at least one applicant to enter applicant identification information comprises the step of prompting said at least one applicant to enter applicant specific community rule criteria.
- 30 66. A computer implemented method to establish secure, trusted dynamic environments as described in claim 65 wherein said step of generating an agreement substantially based upon at least said community rules comprises the

- step of generating an agreement substantially based upon at least said community rules and said applicant specific community rule criteria.
67. A computer implemented method to establish secure, trusted dynamic environments as described in claim 66 wherein said step of generating an agreement substantially based upon at least said community rules and said applicant specific community rule criteria comprises the step of limiting member interactions with said applicant to interactions in compliance with said community rules and said applicant specific community rule criteria.
68. A computer implemented method to establish secure, trusted dynamic environments as described in claim 63 wherein said communication is selected from a group consisting of health information exchange, financial information exchange, personal identification information exchange and document exchange.
69. A computer implemented method to establish secure, trusted dynamic environments as described in claim 63 and further comprising the steps of:
- 15 generating a report from said compatibility engine;
- sending said report from said compatibility engine to a certificate generator; and
- issuing a certificate of compatibility for said target member and said querying member.
70. A computer implemented method to establish secure, trusted dynamic environments as described in claim 63 or 69 and further comprising the step of facilitating a securely exchanged communication between said querying member and said target member.
71. A computer implemented method to establish secure, trusted dynamic environments as described in claim 64 and further comprising the step of providing an intermediary between said applicant and said existing members.
72. A computer implemented method to establish secure, trusted dynamic environments as described in claim 63 and further comprising the step of providing an intermediary between said existing members.
73. A computer implemented method to establish secure, trusted dynamic environments as described in claim 71 or 72 and further comprising the step of granting said intermediary to enforce said agreement.
74. A computer implemented method to establish secure, trusted dynamic environments as described in claim 64 wherein said minimum standard comprises

- standards selected from a group consisting of regulated acts, state laws, federal laws, foreign laws, health care regulations, financial information regulations and personal identification regulations.
75. A computer implemented method to establish secure, trusted dynamic environments as described in claim 64 and further comprising the step of complying said community rules with said Health Insurance Portability and Accountability Act.
- 5 76. A computer implemented method to establish secure, trusted dynamic environments as described in claim 64 and further comprising the step of complying said community rules with said Gramm-Leach-Bliley Act.
- 10 77. A computer implemented method to establish secure, trusted dynamic environments as described in claim 63, 64 or 75 wherein said members are selected from a group consisting of individuals, organization, computer system, machine, companies, corporation and entities.
- 15 78. A computer implemented method to establish secure, trusted dynamic environments as described in claim 64 or 75 wherein said at least one applicant is selected from a group consisting of consultant, lab, clinic, information technology service, hospital, billing service, collection service, specialist, accountant, health maintenance organization, pharmacy, lawyer, transcriptionist, insurer, group health plan, Medicare and physician.
- 20 79. A computer implemented method to establish secure, trusted dynamic environments as described in claim 64 wherein said community rules are selected from a group consisting of confidentiality, encryption/decryption procedures, identification verification, minimum communication requirements, access to information, communication documentation and information transfer procedures.
- 25 80. A computer accessible and implemented method to establish secure, trusted dynamic environments, said method comprising the steps of:
providing at least one electronically accessible community interface;
determining community rules based upon at least one health care regulation for each of said at least one community;
30 providing a new membership application for at least one applicant on said at least one community interface;
prompting said at least one applicant to enter applicant identification information;

- accepting a completed new membership application having said applicant identification information from said at least one applicant;
- processing said new membership application from said at least one applicant;
- generating an agreement substantially based upon at least said community rules,
- 5 said agreement establishing a commitment for another member's benefit;
- prompting said at least one applicant to execute said agreement substantially based upon at least said community rules;
- contractually obligating said at least one applicant and each existing member of
- 10 said at least one community to said community rules for the benefit of said community members; and
- permitting said applicant access to a membership area of said at least one community for communication exchange of protected health information.
- 15 81. A computer implemented method to establish secure, trusted dynamic environments as described in claim 80 wherein said step of prompting said at least one applicant to enter applicant identification information comprises the step of prompting said at least one applicant to enter applicant specific community rule criteria.
- 20 82. A computer implemented method to establish secure, trusted dynamic environments as described in claim 81 wherein said step of generating an agreement substantially based upon at least said community rules comprises the step of generating an agreement substantially based upon at least said community rules and said applicant specific community rule criteria.
- 25 83. A computer implemented method to establish secure, trusted dynamic environments as described in claim 82 wherein said step of generating an agreement substantially based upon at least said community rules and said applicant specific community rule criteria comprises the step of limiting member interactions with said applicant to interactions in compliance with said community rules and said applicant specific community rule criteria.
- 30 84. A computer implemented method to establish secure, trusted dynamic environments as described in claim 80 and further comprising the steps of:
- providing an inquiry interface in said membership area of said at least one community;

- accepting an inquiry from a querying member of said at least one community for communication with a target member of said at least one community;
- processing said inquiry from said querying member; and
- 5 checking compatibility of said querying member with said target member in a compatibility engine.
- 10 85. A computer implemented method to establish secure, trusted dynamic environments as described in claim 80 or 84 wherein said communication is selected from a group consisting of health information exchange, financial information exchange, personal identification information exchange and document exchange.
- 15 86. A computer implemented method to establish secure, trusted dynamic environments as described in claim 84 and further comprising the steps of: generating a report from said compatibility engine;
- sending said report from said compatibility engine to a certificate generator; and
- issuing a certificate of compatibility for said target member and said querying member.
- 20 87. A computer implemented method to establish secure, trusted dynamic environments as described in claim 84 or 86 and further comprising the step of facilitating a securely exchanged communication between said querying member and said target member.
88. A computer implemented method to establish secure, trusted dynamic environments as described in claim 80 and further comprising the step of providing an intermediary between said applicant and said existing members.
- 25 89. A computer implemented method to establish secure, trusted dynamic environments as described in claim 80 and further comprising the step of providing an intermediary between said existing members.
90. A computer implemented method to establish secure, trusted dynamic environments as described in claim 88 and further comprising the step of granting said intermediary to enforce said agreement.
- 30 91. A computer implemented method to establish secure, trusted dynamic environments as described in claim 80 wherein said at least one health care regulation comprises Health Insurance Portability and Accountability Act.

92. A computer implemented method to establish secure, trusted dynamic environments as described in claim 91 further comprising complying said community rules with said Health Insurance Portability and Accountability Act.
- 5 93. A computer implemented method to establish secure, trusted dynamic environments as described in claim 80 or 91 wherein said members are selected from a group consisting of individuals, organization, computer system, machine, companies, corporation and entities.
- 10 94. A computer implemented method to establish secure, trusted dynamic environments as described in claim 80 or 91 wherein said at least one applicant is selected from a group consisting of consultant, lab, clinic, information technology service, hospital, billing service, collection service, specialist, accountant, health maintenance organization, pharmacy, lawyer, transcriptionist, insurer, group health plan, Medicare and physician.
- 15 95. A computer implemented method to establish secure, trusted dynamic environments as described in claim 80 wherein said community rules are selected from a group consisting of confidentiality, encryption/decryption procedures, identification verification, minimum communication requirements, access to information, communication documentation and information transfer procedures
- 20 96. A computer accessible and implemented method to establish secure, trusted dynamic environments, said method comprising the steps of:
 providing at least one electronically accessible community interface;
 determining community rules based upon at least one financial information regulation for each of said at least one community;
 providing a new membership application for at least one applicant on said at least
25 on community interface;
 prompting said at least one applicant to enter applicant identification information;
 accepting a completed new membership application having said applicant identification information from said at least one applicant;
 processing said new membership application from said at least one applicant;
30 generating an agreement substantially based upon at least said community rules, said agreement establishing a commitment for another member's benefit;
 prompting said at least one applicant to execute said agreement substantially based upon at least said community rules;

contractually obligating said at least one applicant and each existing member of said at least one community to said community rules for the benefit of said community members; and

5 permitting said applicant access to a membership area of said at least one community to facilitate communication exchange of protected financial information.

10 97. A computer implemented method to establish secure, trusted dynamic environments as described in claim 96 wherein said step of prompting said at least one applicant to enter applicant identification information comprises the step of prompting said at least one applicant to enter applicant specific community rule criteria.

15 98. A computer implemented method to establish secure, trusted dynamic environments as described in claim 97 wherein said step of generating an agreement substantially based upon at least said community rules comprises the step of generating an agreement substantially based upon at least said community rules and said applicant specific community rule criteria.

20 99. A computer implemented method to establish secure, trusted dynamic environments as described in claim 98 wherein said step of generating an agreement substantially based upon at least said community rules and said applicant specific community rule criteria comprises the step of limiting member interactions with said applicant to interactions in compliance with said community rules and said applicant specific community rule criteria.

25 100. A computer implemented method to establish secure, trusted dynamic environments as described in claim 96 and further comprising the steps of:

providing an inquiry interface in said membership area of said at least one community;

accepting an inquiry from a querying member of said at least one community for communication with a target member of said at least one community;

processing said inquiry from said querying member; and

30 checking compatibility of said querying member with said target member in a compatibility engine.

101. A computer implemented method to establish secure, trusted dynamic environments as described in claim 96 or 100 wherein said communication is

- selected from a group consisting of health information exchange, financial information exchange, personal identification information exchange and document exchange.
102. A computer implemented method to establish secure, trusted dynamic environments as described in claim 100 and further comprising the steps of:
5 generating a report from said compatibility engine;
sending said report from said compatibility engine to a certificate generator; and
issuing a certificate of compatibility for said target member and said querying member.
- 10 103. A computer implemented method to establish secure, trusted dynamic environments as described in claim 100 or 102 and further comprising the step of facilitating a securely exchanged communication between said querying member and said target member.
- 15 104. A computer implemented method to establish secure, trusted dynamic environments as described in claim 96 and further comprising the step of providing an intermediary between said applicant and said existing members.
105. A computer implemented method to establish secure, trusted dynamic environments as described in claim 96 and further comprising the step of providing an intermediary between said existing members.
- 20 106. A computer implemented method to establish secure, trusted dynamic environments as described in claim 104 and further comprising the step of granting said intermediary to enforce said agreement.
107. A computer implemented method to establish secure, trusted dynamic environments as described in claim 96 wherein said at least one financial information regulation comprises Gramm-Leach-Bliley Act.
25
108. A computer implemented method to establish secure, trusted dynamic environments as described in claim 107 further comprising complying said community rules with said Gramm-Leach-Bliley Act.
109. A computer implemented method to establish secure, trusted dynamic environments as described in claim 96 or 107 wherein said members are selected
30 from a group consisting of individuals, organization, computer system, machine, companies, corporation and entities.

110. A computer implemented method to establish secure, trusted dynamic environments as described in claim 96 or 107 wherein said at least one applicant is selected from a group consisting of consultant, information technology service, billing service, collection service, specialist, accountant, insurance company and lawyer.
- 5
111. A computer implemented method to establish secure, trusted dynamic environments as described in claim 96 wherein said community rules are selected from a group consisting of confidentiality, encryption/decryption procedures, identification verification, minimum communication requirements, access to information, communication documentation and information transfer procedures
- 10
112. A computer accessible secure, trusted dynamic environment comprising:
at least one electronically accessible community interface;
a community rule set based upon a minimum standard;
a general interface having a new membership application for at least one
15 applicant;
a new membership application processor;
an agreement generator to prepare an agreement substantially based upon said community rule set for execution by said at least one applicant and an intermediary entity;
- 20
- a contractual link of said at least one applicant to at least said community rule set providing a commitment for another community member's benefit;
a membership area accessed through a member accessible interface for use by existing members;
a communication inquiry interface of said membership area of said at least one
25 community;
a communication inquiry processor; and
a member compatibility processor.
113. A computer accessible secure, trusted dynamic environment comprising:
at least one electronically accessible community interface;
30 a community rule set based upon a minimum standard;
a general interface having a new membership application for at least one applicant;
a new membership application processor;

- an agreement generator to prepare an agreement substantially based upon said community rule set for execution by said at least one applicant and an intermediary entity; and
- 5 a contractual link of said at least one applicant to at least said community rule set providing a commitment for another community member's benefit.
- 10 114. A computer accessible secure, trusted dynamic environment as described in claim 112 or 113 wherein said new membership application processor comprises a processor of applicant identification information, said applicant identification information selected from a group consisting of name, address, desired commitments and requirements of other member parameters.
115. A computer accessible secure, trusted dynamic environment as described in claim 114 and further comprising a database.
116. A computer accessible secure, trusted dynamic environment as described in claim 113 wherein said new membership application processor comprises software.
- 15 117. A computer accessible secure, trusted dynamic environment as described in claim 115 wherein said database comprises a database of additional information, said additional information selected from a group consisting of member interactions, member requirements, member commitments, member updates, certificates, archived agreements, member agreements, current certificates and a certificate revocation list.
- 20 118. A computer accessible secure, trusted dynamic environment as described in claim 112 or 113 wherein said new member application comprises applicant specific community rule criteria.
119. A computer accessible secure, trusted dynamic environment as described in claim 25 118 wherein said agreement generator to prepare an agreement substantially based upon said community rule set for execution by said at least one applicant comprises an agreement generator to prepare an agreement substantially based upon said community rule set and said applicant specific community rule criteria.
120. A computer accessible secure, trusted dynamic environment as described in claim 30 113 and further comprising the steps of:
a membership area accessed through a member accessible interface for use by existing members;

a communication inquiry interface of said membership area of said at least one community;

a communication inquiry processor; and

a member compatibility processor.

- 5 121. A computer accessible secure, trusted dynamic environment as described in claim
112 or 120 wherein said communication inquiry interface comprises a private
information exchange inquiry interface.
- 10 122. A computer accessible secure, trusted dynamic environment as described in claim
112 or 120 wherein said communication inquiry interface comprises a
communication selected from a group consisting of health information exchange,
financial information exchange, personal identification information exchange and
document exchange.
- 15 123. A computer accessible secure, trusted dynamic environment as described in claim
112 or 120 wherein said communication inquiry interface comprises a
communication selected from a group consisting of a business transaction and
provision of services.
- 20 124. A computer accessible secure, trusted dynamic environment as described in claim
120 wherein said member compatibility processor comprises a compatibility
engine.
- 25 125. A computer accessible secure, trusted dynamic environment as described in claim
124 and further comprising a communication inquiry denial element responsive
to said compatibility engine.
126. A computer accessible secure, trusted dynamic environment as described in claim
124 and further comprising a communication inquiry grant element responsive to
said compatibility engine.
- 30 127. A computer accessible secure, trusted dynamic environment as described in claim
112 or 124 and further comprising:
a report from said compatibility engine;
a certificate generator responsive to said report; and
a certificate of compatibility based on said communication inquiry.
128. A computer accessible secure, trusted dynamic environment as described in claim
127 wherein said certificate of compatibility comprises a certificate of
compliance based upon a member's compliance to said community rule set.

129. A computer accessible secure, trusted dynamic environment as described in claim 112 or 127 wherein said certificate generator comprises a digital signature element.
130. A computer accessible secure, trusted dynamic environment as described in claim 5 127 or 128 and further comprising a certificate validation element.
131. A computer accessible secure, trusted dynamic environment as described in claim 127 or 128 and further comprising a certificate revocation element.
132. A computer accessible secure, trusted dynamic environment as described in claim 10 120 or 127 and further comprising a secure communication exchange facilitator.
133. A computer accessible secure, trusted dynamic environment as described in claim 121 or 127 and further comprising a secure private information exchange facilitator.
134. A computer accessible secure, trusted dynamic environment as described in claim 15 132 wherein said secure communication exchange facilitator comprises an information encryption element.
135. A computer accessible secure, trusted dynamic environment as described in claim 133 wherein said secure private information exchange facilitator comprises an information encryption element.
136. A computer accessible secure, trusted dynamic environment as described in claim 20 120 wherein said member compatibility processor comprises a member compatibility processor between a querying member agreement and target member agreement.
137. A computer accessible secure, trusted dynamic environment as described in claim 25 120 wherein said communication inquiry interface comprises an additional criteria specification element.
138. A computer accessible secure, trusted dynamic environment as described in claim 30 137 wherein said member compatibility processor comprises a member compatibility processor between a querying member agreement, a target member agreement and said additional criteria.
139. A computer accessible secure, trusted dynamic environment as described in claim 120 or 136 wherein said member compatibility processor comprises an algorithm.

140. A computer accessible secure, trusted dynamic environment as described in claim 120 wherein said communication inquiry interface is accessible from a communication source selected from a group consisting of a web browser, interface, paper submission and SOAP messages.
- 5 141. A computer accessible secure, trusted dynamic environment as described in claim 113 or 120 wherein said at least one electronically accessible community interface comprises a website.
142. A computer accessible secure, trusted dynamic environment as described in claim 112 or 113 and further comprising an agreement execution certifier.
- 10 143. A computer accessible secure, trusted dynamic environment as described in claim 113 and further comprising an intermediary between said at least one applicant and said members of said community.
144. A computer accessible secure, trusted dynamic environment as described in claim 120 and further comprising an intermediary between said members of said 15 community.
145. A computer accessible secure, trusted dynamic environment as described in claim 143 wherein said intermediary comprises a management entity of said community.
146. A computer accessible secure, trusted dynamic environment as described in claim 20 113 wherein said at least one electronically accessible community interface is accessible through an Internet.
147. A computer accessible secure, trusted dynamic environment as described in claim 143 wherein said intermediary comprises an enforcer of agreements between said members.
- 25 148. A computer accessible secure, trusted dynamic environment as described in claim 143 wherein said intermediary comprises a communication facilitator between said members.
149. A computer accessible secure, trusted dynamic environment as described in claim 30 112 or 113 wherein said minimum standard comprises standards selected from a group consisting of regulated acts, state laws, federal laws, foreign laws, health care regulations, financial information regulations and personal identification regulations.

150. A computer accessible secure, trusted dynamic environment as described in claim 112 or 113 wherein said minimum standard comprises Health Insurance Portability and Accountability Act and wherein said community rule set complies with said Health Insurance Portability and Accountability Act.
- 5 151. A computer accessible secure, trusted dynamic environment as described in claim 112 or 113 wherein said minimum standard comprises Gramm-Leach-Bliley Act and wherein said community rule set complies with said Gramm-Leach-Bliley Act.
- 10 152. A computer accessible secure, trusted dynamic environment as described in claim 112 or 113 wherein said members are selected from a group consisting of individuals, organization, computer system, machine, companies, corporation and entities.
- 15 153. A computer accessible secure, trusted dynamic environment as described in claim 143 and further comprising an agreement executed by said at least one applicant and said intermediary entity.
154. A computer accessible secure, trusted dynamic environment as described in claim 113 or 120 wherein said an agreement comprises terms, said terms selected from a group consisting of implicit and explicit terms.
- 20 155. A computer accessible secure, trusted dynamic environment as described in claim 112, 113 or 120 and further comprising a protection of said at least one community interface against non-authorized use.
156. A computer accessible secure, trusted dynamic environment as described in claim 155 wherein said non-authorized use comprises Internet attacks.
- 25 157. A computer accessible secure, trusted dynamic environment as described in claim 113 wherein said community comprises at least hardware and software.
158. A computer accessible secure, trusted dynamic environment as described in claim 113 wherein said at least one community interface comprises a pedestrian page.
159. A computer accessible secure, trusted dynamic environment as described in claim 158 wherein said pedestrian page comprises information selected from a group consisting of a scope of communities, rules of each community and requirements for membership.

160. A computer accessible secure, trusted dynamic environment as described in claim 120 wherein said member accessible interface comprises a member digital certificate for authorized access to said membership areas.
161. A computer accessible secure, trusted dynamic environment as described in claim 5 112, 113 or 120 further comprising a membership information update interface.
162. A computer accessible secure, trusted dynamic environment as described in claim 10 161 wherein said member information update interface comprises a change to member obligations.
163. A computer accessible secure, trusted dynamic environment as described in claim 162 and further comprising a membership obligations change approval element.
164. A computer accessible secure, trusted dynamic environment as described in claim 15 162 and further comprising a membership obligations change denial element.
165. A computer accessible secure, trusted dynamic environment as described in claim 112, 113, 122 or 150 said at least one applicant is selected from a group consisting of consultant, lab, clinic, information technology service, hospital, billing service, collection service, specialist, accountant, health maintenance organization, pharmacy, lawyer, transcriptionist, insurer, group health plan, Medicare and physician.
166. A computer accessible secure, trusted dynamic environment as described in claim 20 112, 113 or 122 wherein said community rule set are selected from a group consisting of confidentiality, encryption/decryption procedures, identification verification, minimum communication requirements, access to information, communication documentation and information transfer procedures.
167. A computer accessible secure, trusted dynamic environment comprising:
25 at least one electronically accessible community interface;
a community rule set based upon a minimum standard;
a membership area accessed through a member accessible interface for use by existing members;
a communication inquiry interface of said membership area of said at least one community;
30 a communication inquiry processor;
a member compatibility processor; and

- a communication certification element responsive to said member compatibility processor a certification based upon said member compatibility processor.
168. A computer accessible secure, trusted dynamic environment as described in claim 167 at least one electronically accessible community interface;
- 5 a community rule set based upon a minimum standard;
- a general interface having a new membership application for at least one applicant;
- a new membership application processor;
- 10 an agreement generator to prepare an agreement substantially based upon said community rule set for execution by said at least one applicant and an intermediary entity; and
- a contractual link of said at least one applicant to at least said community rule set providing a commitment for another community member's benefit.
169. A computer accessible secure, trusted dynamic environment as described in claim 168 wherein said new member application comprises applicant specific community rule criteria.
- 15 170. A computer accessible secure, trusted dynamic environment as described in claim 169 wherein said agreement generator to prepare an agreement substantially based upon said community rule set for execution by said at least one applicant comprises an agreement generator to prepare an agreement substantially based upon said community rule set and said applicant specific community rule criteria.
- 20 171. A computer accessible secure, trusted dynamic environment as described in claim 167 wherein said communication inquiry interface comprises a communication selected from a group consisting of health information exchange, financial information exchange, personal identification information exchange and document exchange.
- 25 172. A computer accessible secure, trusted dynamic environment as described in claim 167 wherein said member compatibility processor comprises a compatibility engine.
- 30 173. A computer accessible secure, trusted dynamic environment as described in claim 172 and further comprising:
- a report from said compatibility engine;
- a certificate generator responsive to said report; and

- a certificate of compatibility based on said communication inquiry.
174. A computer accessible secure, trusted dynamic environment as described in claim 167 or 173 and further comprising a secure communication exchange facilitator.
175. A computer accessible secure, trusted dynamic environment as described in claim 5 168 and further comprising an intermediary between said at least one applicant and said members of said community.
176. A computer accessible secure, trusted dynamic environment as described in claim 167 and further comprising an intermediary between said members of said community.
- 10 177. A computer accessible secure, trusted dynamic environment as described in claim 175 or 176 wherein said intermediary comprises an enforcer of agreements between said members.
178. A computer accessible secure, trusted dynamic environment as described in claim 167 wherein said minimum standard comprises standards selected from a group 15 consisting of regulated acts, state laws, federal laws, foreign laws, health care regulations, financial information regulations and personal identification regulations.
179. A computer accessible secure, trusted dynamic environment as described in claim 167 or 168 wherein said members are selected from a group consisting of 20 individuals, organization, computer system, machine, companies, corporation and entities.
180. A computer accessible secure, trusted dynamic environment as described in claim 168 said at least one applicant is selected from a group consisting of consultant, lab, clinic, information technology service, hospital, billing service, collection 25 service, specialist, accountant, health maintenance organization, pharmacy, lawyer, transcriptionist, insurer, group health plan, Medicare and physician.
181. A computer accessible secure, trusted dynamic environment as described in claim 167 or 171 wherein said community rule set are selected from a group consisting 30 of confidentiality, encryption/decryption procedures, identification verification, minimum communication requirements, access to information, communication documentation and information transfer procedures.
182. A computer accessible secure, trusted dynamic environment comprising:
at least one electronically accessible community interface;

- a community rule set based upon at least one health care regulation;
- a general interface having a new membership application for at least one applicant;
- a new membership application processor;
- 5 an agreement generator to prepare an agreement substantially based upon at least said community rule set for execution by said at least one applicant; and
- a contractual link of said at least one applicant to at least said community rule set providing a commitment for another community member's benefit.
183. A computer accessible secure, trusted dynamic environment as described in claim
10 182 wherein said new member application comprises applicant specific community rule criteria.
184. A computer accessible secure, trusted dynamic environment as described in claim
183 wherein said agreement generator to prepare an agreement substantially based upon said community rule set for execution by said at least one applicant comprises an agreement generator to prepare an agreement substantially based upon said community rule set and said applicant specific community rule criteria.
15
185. A computer accessible secure, trusted dynamic environment as described in claim
182 and further comprising the steps of:
20 a membership area accessed through a member accessible interface for use by existing members;
a communication inquiry interface of said membership area of said at least one community;
a communication inquiry processor; and
a member compatibility processor.
- 25 186. A computer accessible secure, trusted dynamic environment as described in claim
182 wherein said communication inquiry interface comprises a communication selected from a group consisting of health information exchange, financial information exchange, personal identification information exchange and document exchange.
- 30 187. A computer accessible secure, trusted dynamic environment as described in claim
185 wherein said member compatibility processor comprises a compatibility engine.

188. A computer accessible secure, trusted dynamic environment as described in claim 187 and further comprising:
 - a report from said compatibility engine;
 - a certificate generator responsive to said report; and
- 5 a certificate of compatibility based on said communication inquiry.
189. A computer accessible secure, trusted dynamic environment as described in claim 188 and further comprising a secure communication exchange facilitator.
190. A computer accessible secure, trusted dynamic environment as described in claim 182 and further comprising an intermediary between said at least one applicant and said members of said community.
- 10 191. A computer accessible secure, trusted dynamic environment as described in claim 182 and further comprising an intermediary between said members of said community.
192. A computer accessible secure, trusted dynamic environment as described in claim 15 190 wherein said intermediary comprises an enforcer of agreements between said members.
193. A computer accessible secure, trusted dynamic environment as described in claim 182 wherein said at least one health care regulation comprises Health Insurance Portability and Accountability Act and wherein said community rule set complies 20 with said Health Insurance Portability and Accountability Act.
194. A computer accessible secure, trusted dynamic environment as described in claim 182 or 185 wherein said members are selected from a group consisting of individuals, organization, computer system, machine, companies, corporation and entities.
- 25 195. A computer accessible secure, trusted dynamic environment as described in claim 182 or 193 said at least one applicant is selected from a group consisting of consultant, lab, clinic, information technology service, hospital, billing service, collection service, specialist, accountant, health maintenance organization, pharmacy, lawyer, transcriptionist, insurer, group health plan, Medicare and 30 physician.
196. A computer accessible secure, trusted dynamic environment as described in claim 182 wherein said community rule set are selected from a group consisting of confidentiality, encryption/decryption procedures, identification verification,

minimum communication requirements, access to information, communication documentation and information transfer procedures.

197. A computer accessible secure, trusted dynamic environment comprising:
 - 5 at least one electronically accessible community interface;
 - a community rule set based upon financial information regulations;
 - a general interface having a new membership application for at least one applicant;
 - a new membership application processor;
 - 10 an agreement generator to prepare an agreement substantially based upon at least said community rule set for execution by said at least one applicant; and
 - a contractual link of said at least one applicant to at least said community rule set providing a commitment for another community member's benefit.
198. A computer accessible secure, trusted dynamic environment as described in claim 197 wherein said new member application comprises applicant specific community rule criteria.
199. A computer accessible secure, trusted dynamic environment as described in claim 198 wherein said agreement generator to prepare an agreement substantially based upon said community rule set for execution by said at least one applicant comprises an agreement generator to prepare an agreement substantially based 20 upon said community rule set and said applicant specific community rule criteria.
200. A computer accessible secure, trusted dynamic environment as described in claim 197 and further comprising the steps of:
 - a membership area accessed through a member accessible interface for use by existing members;
 - 25 a communication inquiry interface of said membership area of said at least one community;
 - a communication inquiry processor; and
 - a member compatibility processor.
201. A computer accessible secure, trusted dynamic environment as described in claim 197 or 200 wherein said communication inquiry interface comprises a communication selected from a group consisting of health information exchange, financial information exchange, personal identification information exchange and document exchange.

202. A computer accessible secure, trusted dynamic environment as described in claim 200 wherein said member compatibility processor comprises a compatibility engine.
203. A computer accessible secure, trusted dynamic environment as described in claim 5 202 and further comprising:
 - a report from said compatibility engine;
 - a certificate generator responsive to said report; and
 - a certificate of compatibility based on said communication inquiry.
204. A computer accessible secure, trusted dynamic environment as described in claim 10 197 or 203 and further comprising a secure communication exchange facilitator.
205. A computer accessible secure, trusted dynamic environment as described in claim 197 and further comprising an intermediary between said at least one applicant and said members of said community.
206. A computer accessible secure, trusted dynamic environment as described in claim 15 197 and further comprising an intermediary between said members of said community.
207. A computer accessible secure, trusted dynamic environment as described in claim 205 wherein said intermediary comprises an enforcer of agreements between said members.
208. A computer accessible secure, trusted dynamic environment as described in claim 20 197 wherein said financial information regulations comprises standards selected from a group consisting of regulated acts, state laws, federal laws, foreign laws, health care regulations, financial information regulations and personal identification regulations.
209. A computer accessible secure, trusted dynamic environment as described in claim 25 197 Wherein said financial information regulations comprises Gramm-Leach-Bliley Act and wherein said community rule set complies with said Gramm-Leach-Bliley Act.
210. A computer accessible secure, trusted dynamic environment as described in claim 30 197 or 209 wherein said members are selected from a group consisting of individuals, organization, computer system, machine, companies, corporation and entities.

211. A computer accessible secure, trusted dynamic environment as described in claim 197, 201 or 209 said at least one applicant is selected from a group consisting of consultant, information technology service, billing service, collection service, specialist, accountant, insurance company and lawyer.
- 5 212. A computer accessible secure, trusted dynamic environment as described in claim 197 or 201 wherein said community rule set are selected from a group consisting of confidentiality, encryption/decryption procedures, identification verification, minimum communication requirements, access to information, communication documentation and information transfer procedures.

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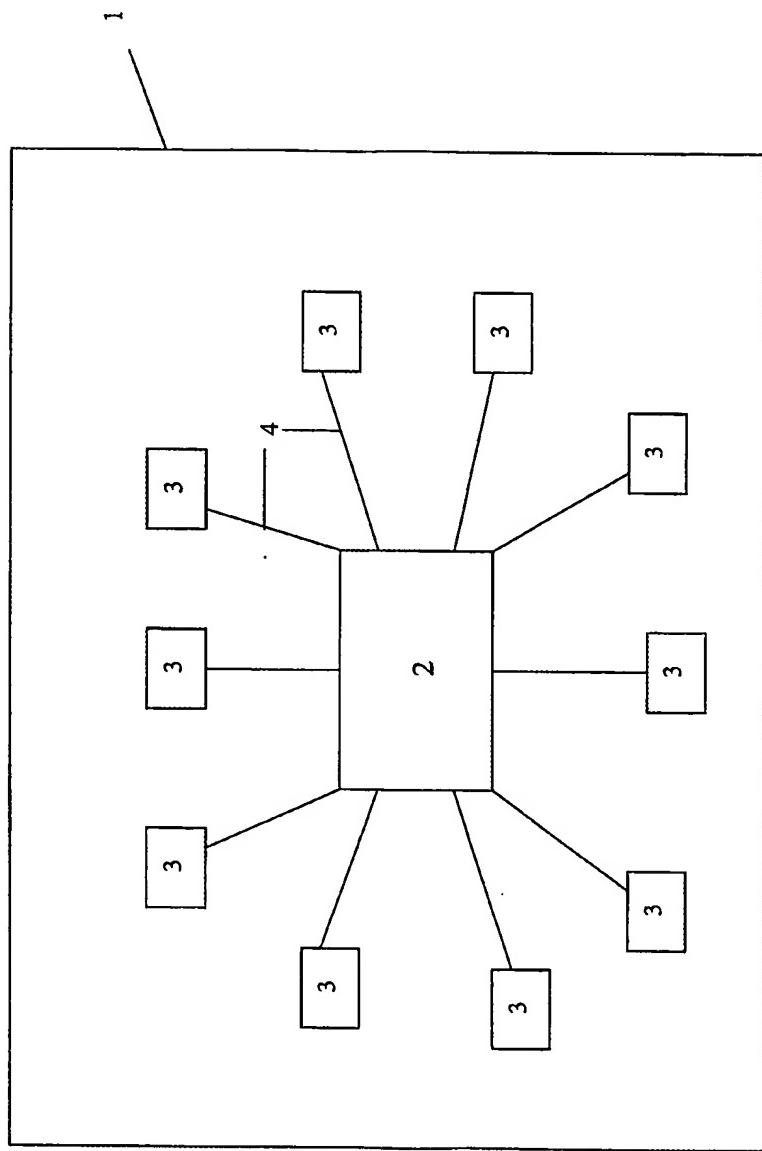


Fig. 1

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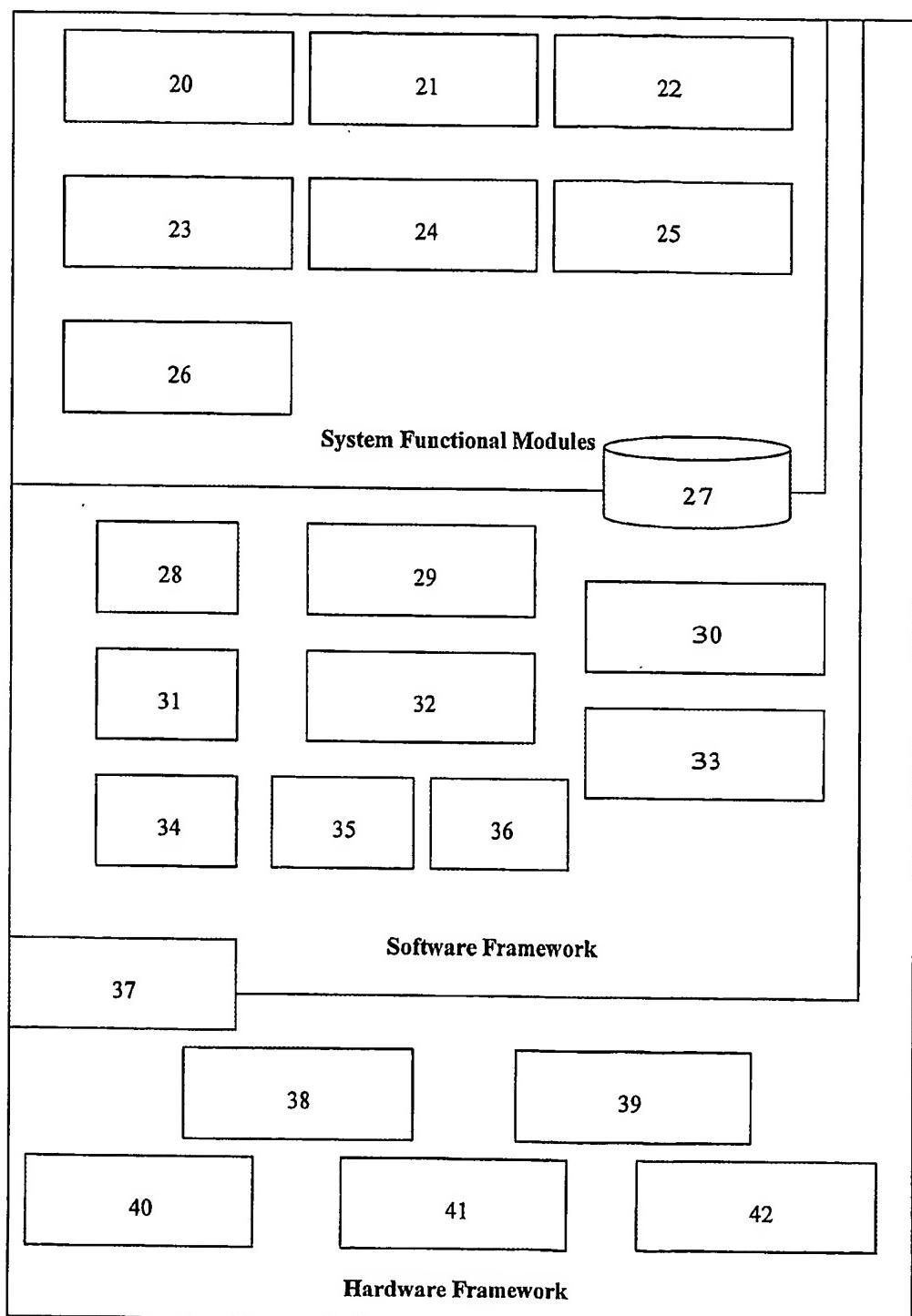


Fig. 2

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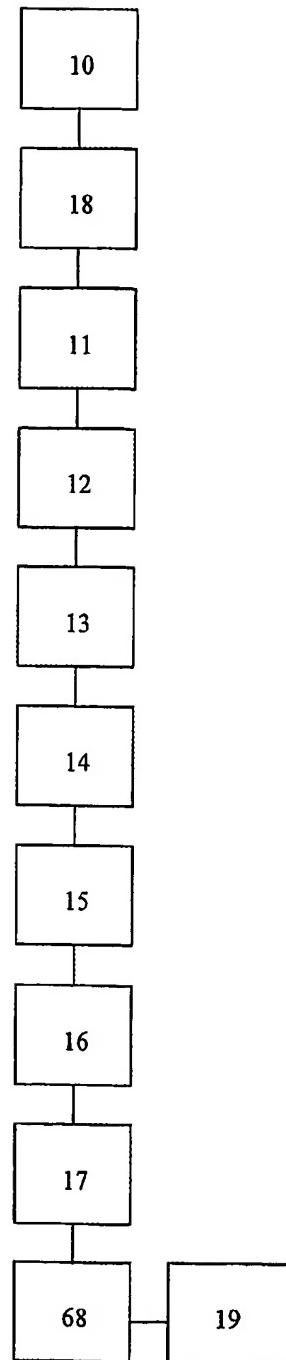


Fig. 3

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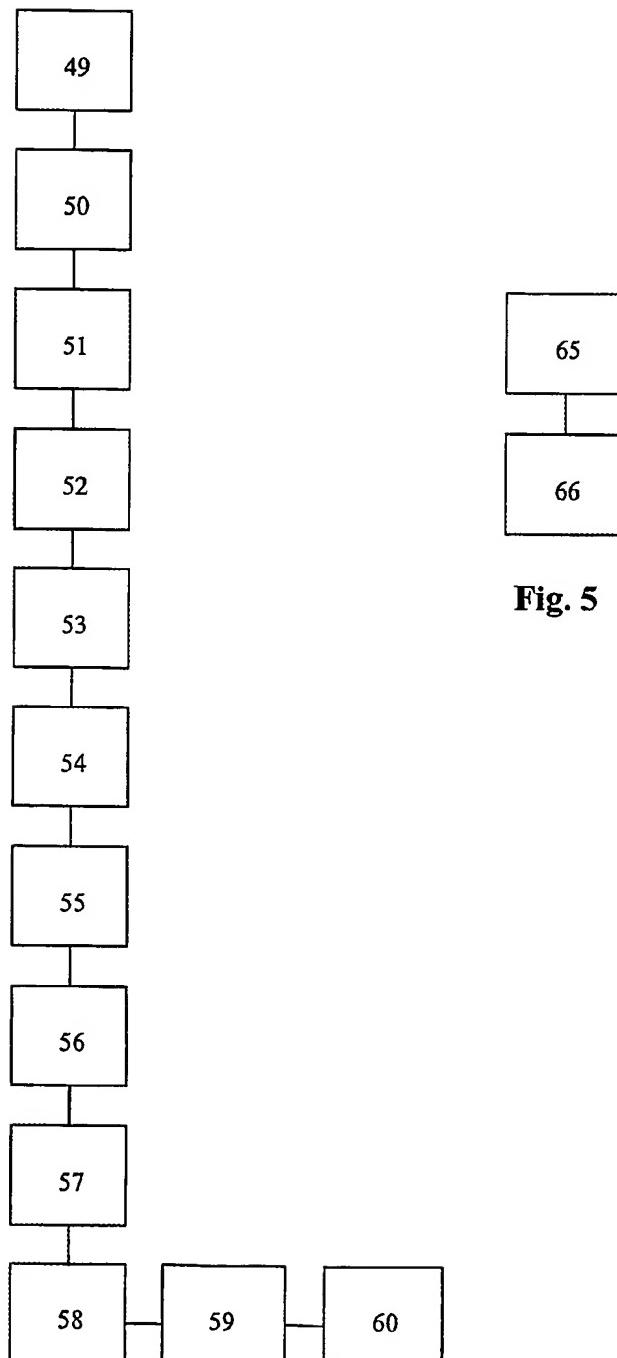


Fig. 5

Fig. 4

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/35457

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 11/30, 12/14; H04L 9/00, 9/32
US CL : 713/200

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 713/200

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, E	US 2005/0075921 A1 (Hayes-Roth) 7 April 2005 (07.04.2005), paragraphs 12-22, 39,42,68-70	1-212

<input type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input type="checkbox"/>	See patent family annex.
*	Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 27 May 2005 (27.05.2005)	Date of mailing of the international search report 07 JUN 2005
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer Ayaz Sheikh Telephone No. 703-305-3900

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